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APR 0 1 2004

TECHNOLOGY CENTER R3700

First Named Inventor

Application Number

Filing Date

Group Art Unit

Please type a plus sign (+) inside this box --->

DECLARATION FOR UTILITY OR

DESIGN PATENT APPLICATION

(37 CFR 1.63)

OR

☐ Declaration

Submitted

□ Declaration

Submitted after Initial

PTO/SB/01 (10-00) Approved for use through 10/31/2002, OMB 0651-0032

Rizzoni et al.

092,031

COMPLETE IF KNOWN

3747

10 March 5, 2002

Attorney Docket Number | OSU1159-148B

Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
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with Initial Filing	Filing (s (37 CFF required	urcharge R 1.16 (e)) I)	Examiner Nam	e			
As a below named inven-	tor, I haraby	declare that:					ı
My residence, post office a	oddress, and	cítizenship are as s	stated below next to m	y name.			١
I believe I am the original, names are listed below) or	first and sole	inventor (if only or	ne name is listed below	w) or an o	original, fir	st and joint inventor (if plural	İ
names are listed below) of	the subject r	natter which is dai	med and for which a p	ACOTIC IS C	ought on	grown ormand.	
ENGINE CONTRO	L USING	TORQUE E	STIMATION				
the specification of which			of the Invention)				
is attached hereto							
OR was filed on (MM/D)	D/YYYY) 03	/05/2002	as Uni	ted State	s Applicat	tion Number or PCT International	ı
Application Number 10/0	92 031	and was	amended on (MM/DD/	,,,,,, I		(if applicable)).
I hereby state that I have re	viewed and u	understand the cor	ntents of the above ide		ecification	n, including the claims, as	
amended by any amendme I acknowledge the duty to disci	nna information	which is material to	natantahilitu as definad is	37 CFR	1,56 încludi	ng for continuation-in-part application	18,
material information which filing date of the continu	became ava	ailable between th	e filing date of the pri	or applic	ation and	the national or PCT internation	iai
I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's							
Thereby claim foreign priority benefits threat 35 U.S.C. Teta/tot of states and transfer priority than the United States of certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.							
or of any PCT international a	вррисатоп па	ving a ning cate o	elote tration the applic	230011011	** , a. C , D , a	Jiny 15 daims65.	
Prior Foreign Application	Co	untry	Foreign Filing Date (MM/DD/YYY)	1	iority Claimed	Certified Copy Attached?	
Number(s)	00	uniy	(IVIIVDDATTTT)	1.00			
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	:				日		
Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto: I hereby claim the benefit under 35 U.S.C. 1 19(e) of any United States provisional application(s) listed below.							
Application Number			MM/DD/YYYY)	iai appiic	COOKS!	ored delight.	
Application Number	(3)	1 ming Date (Г	Additi	onal provisional application	
		V05 12001		1		ers are listed on a emental priority data sheet	
60/273,423	103	/05/2001				SB/02B attached hereto.	

(Page 1 of 2) Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/01 (10-00)

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DECLARATION — Utility or Design Patent Application

Direct all correspondence to:	ustomer Numbe Bar Code Labe	er 08	3698		OR C	orrespondence address below
Name						
Address						
Address			1			
City				State		ZIP
Country	Te	lephone	•			Fax
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1 001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.						
NAME OF SOLE OR FIRST INV	ENTOR			A petition	on has been file	ed for this unsigned inventor
Given Name (first and middle [if any]) Giorgio				Family Name or Surname Rizzoni		
Inventor's Ower River						
			state Ohi	nío Country U.S.A. Citizenshi		Citizenship Italy
Mailing Address 1938 Concord Road						
Mailing Address						
City Upper Arlington	State Ohio			ZIP 43	212	Country U.S.A.
NAME OF SECOND INVENTOR	:			A petiti	on has been fi	led for this unsigned inventor
Given Name (first and middle [if any]) Yann Family Name or Surname Guezennec				с		
Inventor's Date 3/1/04						
Signature			State Oh	io	Country U.S.A	
Nesidence. Only determined						
Mailing Address 1999 Arlington Ave	anue					
Mailing Address						
	State Ohio			ZIP 431		Country U.S.A.

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PTO/SB/02A (1 1-00)
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DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 1 of 1

		1				
Name of Additional Joint Inventor, if ar		A petition has been filed for this unsigned inventor				
Given Name (first and middle [if any]	Family	Name or Su	rname			
Ahmed		Soliman				
Inventor's Signature	<u>پ</u>			Date 3/104		
Residence: City Upper Arlington	State Ohio	Country U.S.A.	c	Sitizenship Egypt		
Mailing Address 1834 Elmwood Avenue						
Mailing Address						
City Upper Arlington	State Ohio	ZIP 43212	Country	U.S.A.		
Name of Additional Joint Inventor, if ar	ıy:	A petition has been	filed for this	unsigned inventor		
Given Name (first and middle [if any])	Family Name or Surname				
Byungho		Lee				
Inventor's Signature				Date 3/1/04		
Residence: City Columbus	State Ohio	Country U.S.A.		Republic of Kowa . Citizenship		
Mailing Address 70	9 Carpeni	er Ridge		Republic of Kore		
Mailing Address						
City Columbus	State Ohio	ZIP 43228	Coun	itry U.S.A.		
Name of Additional Joint Inventor, if a	ny:	A petition has been	filed for this	unsigned inventor		
Given Name (first and middle [if any]	Family Name or Surname					
-						
Inventor's Signature				Date		
Residence: City	State	Country		Citizenship		
Mailing Address						
Malling Address		ļ				
City	State	ZIP	Co	untry		

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231,



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PTO/SB/81 (10-00)

Approved for use through 10/31/2002. OMB 0651-0035

Patent and Trademark Office- U S DEPARTMENT OF COMMERCE

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POWER OF ATTORNEY OR **AUTHORIZATION OF AGENT**

Application Number	10/092;031
Filing Date	03/05/2002
First Named Inventor	Giorgio Rizzoni et al.
Group Art Unit	3747
Examiner Name	
Attorney Docket Number	OSU1159-148B

I hereby ap	point:			Γ			
OR		Customer Number 08698		— ▷	Place Customer Number Bar Code Label here		
Practition	oner(s) n	amed below:					
		Name	Registration Number				
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as my/our a business in	attomey(n the Pate	s) or agent(s) to prosecute the applicate and Trademark Office connected the	tion id erewi	entified ab th.	ove, and to transact all		
		correspondence address for the above	-ident	ified appli	cation to:		
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Address			State		ZIP		
City			State				
Country Telephone			Fax				
I am the		Inventor.					
☐ As	ssignee o	of record of the entire interest. See 37 t under 37 CFR 3.73(b) is enclosed.	CFR (Forr	3.71. n PTO/SE	3/96).		
	<u></u>	SIGNATURE of Applicant or Assign	iee of	Record			
Name	Byungh	o Lee					
Signature	1	blee					
Date	3/	1/04					
Note: Signatur	res of all th	e inventors or assignees of record of the entire in one signature is required, see below.	nterest	or their repre	sentative(s) are required. Subm		
Multiple torris		me are submitted		****			

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231,

PTO/SB/96 (04-03)
Approved for use through 04/30/2003. OMB 0651-0031

B. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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DA-TOR'	STATEMENT UNDER 37 CF	R 3.73(b)
Applicant/Patent Owner: The Ol	nio State University	
Application No./Patent No.: 10/09	P2,031 Filed/Issue Date:	March 3, 2002
Entitled: ENGINE CONTROL US	SING TORQUE ESTIMATION	
The Ohio State University	a non-profit organi	
(Name of Assignee)	(Type of Assignee, e.g	corporation, partnership, university, government agency, etc.)
states that it is: I. ☑ the assignee of the entire ri	ght, title, and interest; or	RECEIVED
2. an assignee of less than the	e entire right, title and interest.	APR 0 1 2004
The extent (by percentage) in the patent application/patent id	of its ownership interest is% lentified above by virtue of either:	TECHNOLOGY CENTER R3700
		dentified above. The assignment was recorded, Frame, or for which a copy thereof is
OR		
B. A chain of title from the inverse below:	entor(s), of the patent application/patent id	lentified above, to the current assignee as shown
The document was r Reel, F	recorded in the United States Patent and Frame, or for whice	ch a copy thereof is attached.
2. From: The document was r	10:10:	Trademark Office at
Reel	, Frame, or for wh	nich a copy thereof is attached.
3. From:	To:	
The document was r	ecorded in the United States Patent and, Frame, or for w	Trademark Office at
Reel	, Frame, or for w	which a copy thereor is attached.
Additional documents	in the chain of title are listed on a supple	emental sheet.
[NOTE: A separate copy (i.e. must be submitted to Assignr	other documents in the chain of title are , the original assignment document or a tr ment Division in accordance with 37 CFR a USPTO. See MPEP 302.08]	rue copy of the original document)
The undersigned (whose title is su	upplied below) is authorized to act on beh	alf of the assignee.
3/11/04		Ellen Purpus, Ph.D.
Date		Typed or printed name
614-792-5555		Ulle bruges
Telephone number		Signature
	_	Director
		Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450 Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

/0 =1	
Form PTO-1595 MAR 2 9 200 REPORDATION FORM PATENT	
OMB No. 0651-0027 (exp\ 6/30/2005)	т т т Т
Tab settings To the Honorable Commissioner of Patents and Trademarks: F	Please record the attached original documents or copy thereof.
	2. Name and address of receiving party(ies)
1. Name of conveying party(ies):	Name: The Ohio State University
Byungho Lee Giorgio Rizzoni Yann Guezennec Ahmed Soliman	Internal Address: RECEIVED
Additional name(s) of conveying party(ies) attached? Yes No	APR 0 1 2004
3. Nature of conveyance:	TECHNOLOGY CENTER R3700
Assignment Merger	TECHNOLOGY OF KILLINGS
	Street Address: 1960 Kenny Road
Security Agreement Change of Name	
Other	
	City: Columbus State: Ohio Zip: 43210-1063
Execution Date: 03/01/2004	Additional name(s) & address(es) attached? Yes No
4. Application number(s) or patent number(s):	
A. Patent Application No.(s)	B. Patent No.(s)
	6. Total number of applications and patents involved 1
Name and address of party to whom correspondence concerning document should be mailed:	
Name: Jeffrey S. Standley, Standley Law Group LLP	7. Total fee (37 CFR 3.41) \$40.00
	Enclosed
Internal Address:	Authorized to be charged to deposit account
	8. Deposit account number:
Out of Address	
Street Address: 495 Metro Place South, Suite 210	
City: Dublin, State: Ohio Zip: 43017	
DO NOT US	E THIS SPACE
9. Signature.	
3. 3.3	
	1 1 1 - 1
CAROL G. STOVSKY	Signature March 17, 2004 Date
Name of Person Signing	eigharare U
Total number of pages including co	ver sheet, attachments, and documents: 4

ASSIGNMENT

This assignment is made by Byungho Lee, residing at 709 Carpenter Ridge
City of <u>Columbus</u> , State of Ohio <u>43228</u> [zip code]; Giorgio Rizzoni, residing at
1938 Concord Rd. City of Upper Arlington tate of Ohio 43212
[zip code]; Yann Guezennec, residing at 1999 Arlington Ave. City of
Upper Arlingtonate of Ohio 43212 [zip code]; and Ahmed Soliman, residing at
1834 Elmwood Ave. City of upper Arlingtofate of Ohio 43212
[zip code] ("ASSIGNORS") to The Ohio State University, a non-profit organization organized under
the laws of the State of Ohio and having an office at 1960 Kenny Road, City of Columbus, State of
Ohio 43210-10963 (ASSIGNEE").

FOR ONE U.S. DOLLAR (\$1.00) AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, the receipt of which is hereby acknowledged, ASSIGNORS do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest, together with all rights of priority, in and to our invention entitled ENGINE CONTROL USING TORQUE ESTIMATION, as described and/or claimed in an application for patent of the United States of America, Serial No. 10/092,031.

ASSIGNORS further do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest, together with all rights of priority, in and to ASSIGNORS' invention as described and/or claimed in any and all applications for patents based on the invention, including divisionals, continuations, renewals, substitutes and reissues thereof, and all rights of priority resulting from any of these patent applications, as well as all foreign counterparts and extensions thereof, together with all patents issuing on any of these applications for the full terms of all of the patents which may be granted on the invention.

ASSIGNORS HEREBY AUTHORIZE ASSIGNEE to make applications for, to prosecute such applications, and to receive patents for the invention in the United States and any foreign countries, in ASSIGNEE's name.

ASSIGNORS HEREBY PROMISE AND AGREE that ASSIGNORS will execute or procure any further necessary assurance of title to the invention and any patents which may issue on the invention. ASSIGNORS will, at any time, upon the request and without further consideration, but at the expense of ASSIGNEE, deliver any testimony in any legal proceedings and execute all papers and do all other things that may be necessary or desirable to perfect the title to the invention, or any patents which may be granted therefor, in ASSIGNEE, its successors, assigns, or other legal

representatives. ASSIGNORS will, at any time, upon the request and at the expense of ASSIGNEE, execute any continuations, divisionals, reissues, or any other additional applications for patents for the invention or any part or parts thereof and any patents issuing thereon are hereby assigned to ASSIGNEE. ASSIGNORS will make all rightful oaths, and do all lawful acts required for procuring and enforcing any of the patents, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

ASSIGNORS HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for the invention, resulting from any of the aforesaid applications to the ASSIGNEE.

BYUNGHO LEE, ASSIGNOR

STATE OF OHIO

COUNTY OF FRANKLIN

: SS:

Before me personally appeared BYUNGHO LEE, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this <u>l</u> day of <u>Marl</u>, 2004. Lynn A Royer Notary Public, Sta

Notary Public

STATE OF OHIO

COUNTY OF HRANKLIN

: SS:

Before me personally appeared GIORGIO RIZZONI, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this day of

Lynn A Royer Notary Public, State of On My Commission Expires 6

Notary Public

ASSIGNORS HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for the invention, resulting from any of the aforesaid applications to the ASSIGNEE.



YANN GYEZENNEC, ASSIGNOR

Before me personally appeared YANN GUEZENNEC, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this \mathcal{H} day of $\frac{\mathcal{K}}{\mathcal{L}}$, 2004.

Luc

Notary Public

AHMED SOLIMAN, ASSIGNOR

STATE OF OHIO COUNTY OF FRANKLIN

: SS:

Before me personally appeared AHMED SOLIMAN, to me known to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed the same, of his own free will and for the purposes set forth.

Sworn to before me and subscribed in my presence this 4 day of March, 2004.

Lynn A Royer

Notary Public, State of Onlo

My Commission Expires 6/5/06

Notary Public



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:

Applicant:

Rizzoni et al.

Our. Ref.:

OSU 1159-148

RECEIVED

Serial No.:

10/092,031

APR 0 1 2004

TECHNOLOGY CENTER R3700

Filing Date: March 5, 2002

Entitled:

ENGINE CONTROL USING TORQUE ESTIMATION

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 CFR §1.8 (a)

Date of Deposit:

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria VA 223

STATEMENT IN SUPPORT OF PETITION TO **CORRECT INVENTORSHIP UNDER 37 C.F.R. §1.48(a)**

- I, Byungho Lee, declare as follows:
- 1) That I am a joint inventor in the above referenced patent application;
- 2) That after the filing of the instant application, a thorough review of inventorship in relation to the pending claims revealed that I am a joint inventor of the subject matter claimed in the instant application;
- 3) That this error was discovered after the filing date of the instant application;
- 4) That this error occurred without any deceptive intent on my part; and
- 7) That all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements

and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Further Declarant sayeth not.

Date 3/1/04

Byungho Lee